[112] WHAT IS CLAIMED IS:

1.   A method of using a firearm shot helmet detection system, comprising:

providing a firearm shot detection system comprising a plurality of helmets worn by respective mobile fighters, each helmet including a firearm shot detection system that detects the presence and geographical origination of a firearm shot, and wirelessly communicates with other firearm shot detection systems of other respective helmets;

detecting the presence of a firearm shot with the firearm shot detection system of each helmet;

wirelessly communicating distance information on the detected firearm shot with the other firearm shot detection systems of other respective helmets;

determining the geographical origination of the firearm shot using triangulation based on the distance information on the detected firearm shot.

2.   The method of claim 1, wherein each firearm shot detection system includes a communication device wirelessly networked with the communication devices of other respective firearm shot detection systems.

3.   The method of claim 1, wherein the distance information on the detected firearm shot is the radial distance from the helmet to the geographical origination of the firearm shot.

4.   The method of claim 1, wherein the geographical origination of the firearm shot is reported to the fighter visually.

5.   The method of claim 1, wherein the geographical origination of the firearm shot is reported to the fighter audibly.

6.   The method of claim 1, wherein the geographical origination of the firearm shot is reported to the fighter through tactile means.

7.   The method of claim 1, wherein the firearm shot detection system includes a display screen, a GPS receiver, and the display screen display graphics representing the geographical origination of the firearm shot.

8.   The method of claim 1, wherein the geographical origination of the firearm shot includes height information on the geographical origination of the firearm shot.

9.   A method of using a helmet monitoring camera system for a fighter, comprising:

       providing a helmet monitoring camera system including a helmet on a head of the fighter, the helmet monitoring camera system including a front, a right, a left, and a back, one or more monitoring cameras carried by the helmet to view objects in at least the back of the helmet, and a screen in the front of the helmet to view the objects in at least the back of the helmet;

       imaging objects in at least the back of the helmet with the one or more monitoring cameras;

       viewing images of the objects in at least the back of the helmet taken by the one or more monitoring cameras with the screen in the front of the helmet.

10.   The method of claim 9, wherein the one or more monitoring cameras, along with the fighter's forward view, provide 360-degree vision around the fighter.

11.   The method of claim 9, wherein the one or more monitoring cameras include two monitoring cameras.

12.   The method of claim 9, wherein the one or more monitoring cameras include three monitoring cameras.

13.   The method of claim 9, wherein the one or more monitoring cameras include four monitoring cameras.

14.   The method of claim 9, wherein the one or more monitoring cameras include one or more infrared monitoring cameras.

15.   The method of claim 9, wherein the screen is a flip-down screen.

16.   The method of claim 9, wherein the helmet monitoring camera system includes a motion-detection feature whereby the fighter is alerted when the helmet monitoring camera system detects motion by the one or more monitoring cameras.

17.   The method of claim 9, wherein the helmet monitoring camera system includes a tactile mechanism that alerts the fighter upon a detection of a condition.

18.   The method of claim 9, wherein the helmet monitoring camera system includes an audible mechanism that alerts the fighter upon a detection of a condition.